



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

U.S. APPLICATION NUMBER NO. 10/560,987	FIRST NAMED APPLICANT Khalil ARAR	ATTY. DOCKET NO. PRO.14/PCTUS
		INTERNATIONAL APPLICATION NO. PCT/US04/19671
		I.A. FILING DATE 06/18/2004
		PRIORITY DATE 06/26/2003

61638  
SIGMA-ALDRICH CO.  
3050 SPRUCE STREET  
ST. LOUIS, MO 63013

CONFIRMATION NO. 9438  
371 FORMALITIES LETTER  
  
\*OC000000022358872\*

Date Mailed: 02/09/2007

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- ✓ • Copy of the International Application filed on 12/14/2005
- ✓ • Copy of the International Search Report filed on 12/14/2005
- ✓ • Preliminary Amendments filed on 12/14/2005
- ✓ • Biochemical Sequence Diskette filed on 12/14/2005
- ✓ • Biochemical Sequence Listing filed on 12/14/2005
- ✓ • Request for Immediate Examination filed on 12/14/2005
- ✓ • U.S. Basic National Fees filed on 12/14/2005
- ✓ • Priority Documents filed on 12/14/2005
- ✓ • Power of Attorney filed on 04/17/2006

First Due By  
4/9/07

The applicant needs to satisfy supplemental fees problems indicated below.

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- ✓ • Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

SUMMARY OF FEES DUE:

Total additional fees required for this application is \$130 for a Large Entity:

- **\$130 Surcharge.**

- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

**For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:**

- **For Rules Interpretation, call (571) 272-0951**
- **For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.**
- **Send e-mail correspondence for Patentin Software Program Help @ [ebc@uspto.gov](mailto:ebc@uspto.gov)**

**ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.**

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.  
<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

For more information about EFS-Web please call the USPTO Electronic Business Center at **1-866-217-9197** or visit our website at <http://www.uspto.gov/ebc>.

**If you are not using EFS-Web to submit your reply, you must include a copy of this notice.**

FRANCINE YOUNG

Telephone: (703) 308-9140 EXT 215

**PART 1 - ATTORNEY/APPLICANT COPY**

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/560,987	PCT/US04/19671	PRO.14/PCTUS

## **STIC Biotechnology Systems Branch**

### **RAW SEQUENCE LISTING** **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/560,987  
Source: IFWP  
Date Processed by STIC: 12/30/05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

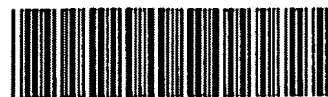
TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.2.2 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05



IFWP

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/560,987

DATE: 12/30/2005  
TIME: 09:40:41

Input Set : A:\PRO14PCT.ST25.txt  
Output Set: N:\CRF4\12302005\J560987.raw

3 <110> APPLICANT: PROLIGO, LLC  
4 Arar, Khalil  
6 <120> TITLE OF INVENTION: Fluorogenic Nucleic Acid Probes Including LNA For  
Methods To  
7 Detect And/Or Quantify Nucleic Acid Analytes  
9 <130> FILE REFERENCE: PRO14PCT  
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/560,987  
C--> 11 <141> CURRENT FILING DATE: 2005-12-14  
11 <150> PRIOR APPLICATION NUMBER: 60/482,684  
12 <151> PRIOR FILING DATE: 2003-06-26  
14 <160> NUMBER OF SEQ ID NOS: 15  
16 <170> SOFTWARE: PatentIn version 3.2

## ERRORRED SEQUENCES

361 <210> SEQ ID NO: 15  
362 <211> LENGTH: 13  
363 <212> TYPE: DNA  
364 <213> ORGANISM: Artificial  
366 <220> FEATURE:  
367 <223> OTHER INFORMATION: Synthetic Nucleic Acid Ligand  
370 <220> FEATURE:  
371 <221> NAME/KEY: misc\_feature  
372 <222> LOCATION: (7)..(7)  
373 <223> OTHER INFORMATION: C at position 7 is derivatized with dye LC Red

640

375 <400> SEQUENCE: 15  
376 cttctccaag aac

13

E--&gt; 379

(2) delete - see p. 2 for more errors

Does Not Comply  
Corrected Diskette Needed

10/560,987 2

<210> 6  
<211> 17  
<212> DNA  
<213> Artificial

<220>  
<223> Synthetic Nucleic Acid Ligand

<220>  
<221> misc\_feature  
<222> (4)..(4)  
<223> T at position 4 is a locked nucleic acid

<220>  
<221> misc\_feature  
<222> (8)..(8)  
<223> C at position 8 is a locked nucleic acid

<220>  
<221> misc\_feature  
<222> (12)..(12)  
<223> T at position 12 is a locked nucleic acid

<400> 6  
acctccactc agtgtga

→ 'g' is at position 12  
=

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/560,987

DATE: 12/30/2005

TIME: 09:40:42

Input Set : A:\PRO14PCT.ST25.txt

Output Set: N:\CRF4\12302005\J560987.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:379 M:254 E: No. of Bases conflict, this line has no nucleotides.